

Approved For Release 2002/06/18 : CIA-RDP74B00836R000300020018-7

DATE

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PRIORITY

25X1A

IN 90446

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09A 1.20 C

IMMEDIATE

INFO PRIORITY

IDEALIST LOGS MAINT

REF:

THE EGT TEST CIRCUIT HAS BEEN FOUND SUSCEPTIBLE TO RF POWER IN THE HF BAND - BOTH ON OUR ARTICLES AND ON OTHER AIRCRAFT USING SIMILAR EGT INDICATOR. WE HAVE WITNESSED THE FOLLOWING EGT INDICATION DURING HF TUNING AND HF TRANSMISSION. THIS CORRESPONDS WITH OBSERVATIONS BY OTHER OPERATORS ON OTHER AIRCRAFT USING SIMILAR EGT SYSTEM.

1. DURING TUNING THE EGT INDICATIONS MAY INCREASE 1 - 2 OR 3 DEGREES, DEPENDING ON THE HF FREQUENCY SELECTED. THE INDICATION IS FAIRLY STEADY DURING TUNING MODE AND CAN BE READ OUT BY PILOT.
2. DURING TRANSMISSION THE EGT DIGITAL READ-OUT WILL OSCILLATE VERY RAPIDLY AND THE EXCURSION OF OSCILLATION WILL VARY FROM 1 TO 10 DEGREES, DEPENDING ON HF FREQUENCY SELECTED. THE OSCILLATIONS ARE SO RAPID THE LAST DRUM OF THE DIGITAL READ-OUT CANNOT BE READ.
3. SOME INDICATORS ARE MORE SUSCEPTIBLE THAN OTHERS.
4. THE EGT IND. HAS NEVER BEEN DRIVEN TO MAX. BY R.F. POWER TO OUR KNOWLEDGE.

S E C R E T

GROUP 1  
EXCLUDED FROM AUTO-  
MATIC DOWNGRADING  
AND DECLASSIFICATION

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[ ] IN 90446

PAGE TWO

25X1A

[ ] REQUESTED TO FURNISH EXACT FREQUENCIES OF 618T-3 AND  
ANTENNA TUNER AS DETERMINED BY [ ] TEST. WE WILL ATTEMPT TO 25X1A  
SIMULATE CONDITION AND DETERMINE RESULT OF TUNER AND EGT.

SEVERAL TYPE TUNER FAILURES CAN RESULT IN 618T-3 AND TUNER MIS-  
MATCH. ONE POSSIBILITY EXISTS THAT IN ATTEMPTING TO CHANGE FREQUENCIES  
FOR AN EXTENDED PERIOD OF TIME THE TUNER WAS SHUT DOWN BY THE AUTOMATIC  
THERMAL CUT-OUT. WHEN THIS HAPPENS THE TUNER WILL STOP WHEREVER IT  
HAPPENS TO BE AT THE TIME.

END OF MESSAGE

S E C R E T